Unit and non-unit fractions



Write fractions to complete the sentences.





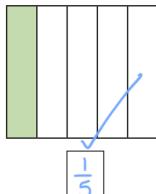


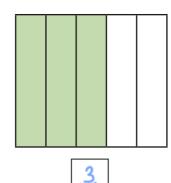
- a) $\frac{1}{3}$ of the counters are yellow.
- b) $\frac{2}{3}$ of the counters are red.
- Write fractions to complete the sentences.
 - a) $\frac{3}{6}$ of the tower is green.
 - b) $\frac{2}{6}$ of the tower is yellow.
 - c) $\frac{1}{6}$ of the tower is blue.

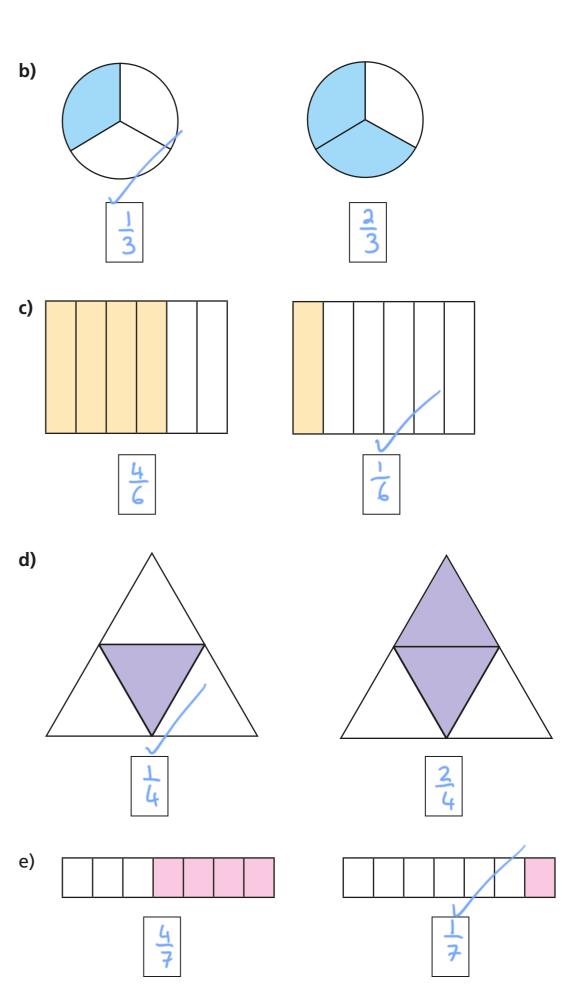


3 What fraction of each shape is shaded?





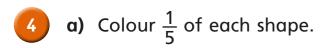


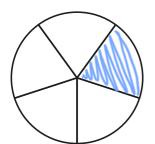


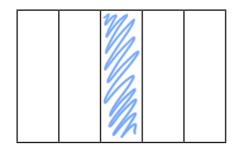
Tick the unit fraction in each pair of shapes.

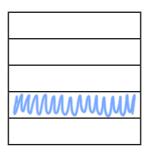
How did you know which was the unit fraction?



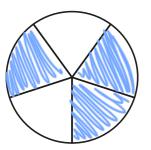


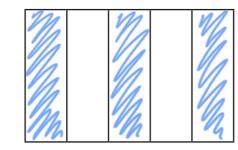


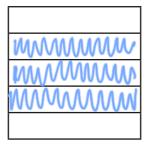




b) Colour $\frac{3}{5}$ of each shape.



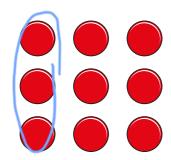




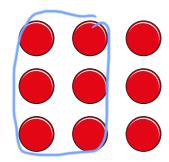
What is the same and what is different about your answers?



(5) a) Circle $\frac{1}{3}$ of the counters.



b) Circle $\frac{2}{3}$ of the counters.



What is the same and what is different about your answers?



Write the fractions in the table.

<u>1</u>

<u>2</u> 3 3/4

10

1/8

<u>3</u> 5 <u>1</u>

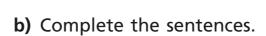
<u>1</u> 99 <u>6</u> 1 <u>1</u> 250

Unit fractions	Non-unit fractions		
16 1 4 99 10 B 1250	-10 212 242 410		

Write two more examples of your own in each column.

a) What is a unit fraction? What is a non-unit fraction?

Talk about it with a partner.



An example of a unit fraction is

The numerator is always

An example of a non-unit fraction is $\frac{3}{5}$

The numerator is always greater than







Making the whole



Here are some counters.



a) What fraction of the counters are yellow?

3 5

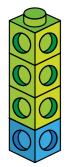
b) What fraction of the counters are red?

215

c) Complete the number sentence.

$$\frac{3}{5} + \frac{2}{5} = \frac{5}{5}$$

Complete the sentences.



a) What fraction of the tower is green?

34

b) What fraction of the tower is blue?

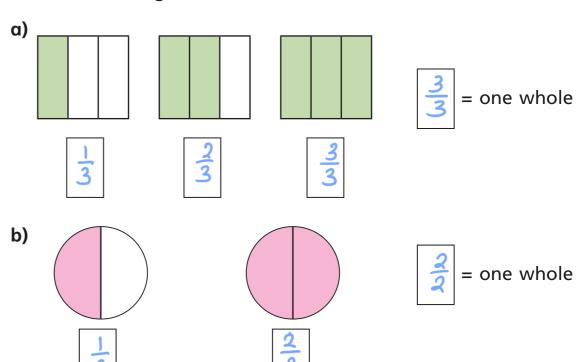
4

- c) Complete the number sentence.
- 3 + 4 = 4

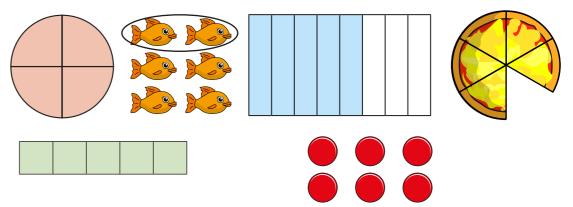
What fraction of each shape is shaded?

Which fraction represents a whole?

Fill in the missing fractions.



4 Here are some pictures.



Use the pictures to help you answer the questions.

- a) Write three fractions that are less than one whole.
 - 3 5 8

b) Write three fractions that are equal to one whole.

44 515

What do you notice? Talk about it with a partner.



Choose a phrase to complete the sentences.

greater than

less than

equal to

When the numerator is ______ the denominator, the fraction is less than one whole.

When the numerator is __equal to one whole.

Circle the fractions that are equivalent to one whole

<u>3</u> 5















Here are $\frac{1}{3}$ of Jack's marbles.













Draw the rest of Jack's marbles in the bar model.

 $\frac{2}{7}$ of a group of children are girls.

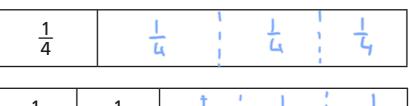




What fraction are boys?



Each bar model is worth one whole.
Split the bar model and label the missing fractions.



<u>1</u> 5	<u>1</u> 5	† 5	15	1 5	
	7		100	1 10 1 10	

Complete the number sentences.

a)
$$\frac{3}{5} + \left| \frac{2}{5} \right| = 1$$

b)
$$\frac{6}{10}$$
 + $\frac{4}{10}$ =

d)
$$\frac{9}{9} = \left| \frac{4}{9} \right| + \frac{5}{9}$$

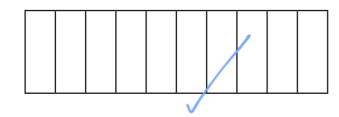


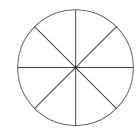


Tenths



Tick the pictures that show tenths.

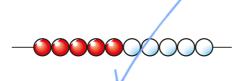












Write fractions to complete the sentences.





















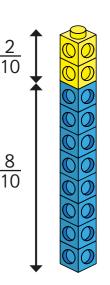


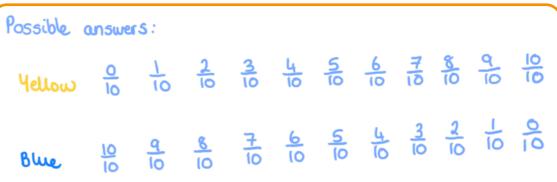
- of the counters are yellow.
- of the counters are red.
- of the counters are green.

Amir has some blue and yellow cubes.

He makes a tower using 10 cubes.

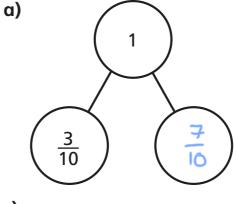
Investigate how many different towers Amir can make with 10 cubes, if every tower has a different fraction of blue and yellow cubes.

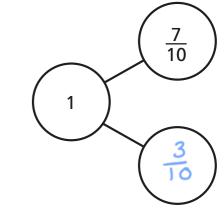


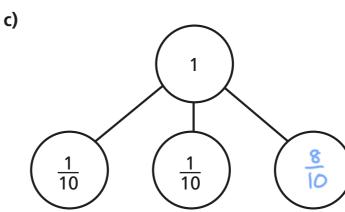


b)

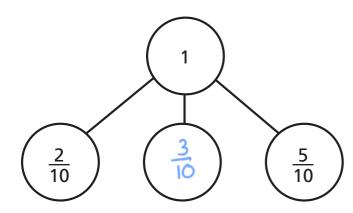
Complete the part-whole models.



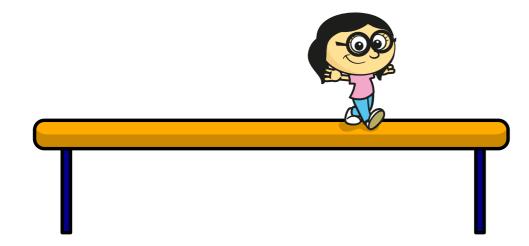




d)



Annie has travelled $\frac{7}{10}$ of the way across a balance beam.



How many tenths does she have left to travel?



10 boys share 3 pizzas equally.







What fraction of a pizza do they each get?



- Dani has a bag of sweets.
 - $\frac{1}{2}$ of the sweets are red.



The rest are green.

What fraction of the sweets are green?





- 8 Mo also has a bag of sweets.
 - $\frac{4}{10}$ of his sweets are red.

The rest are green or yellow.

What fraction of Mo's sweets could be green?





What fraction could be yellow?

How many possible answers can you find?





Green	0	10	2	3 10	410	5 10	60

Yellow 6 5 4 3 2 1 0

Compare answers with a partner.

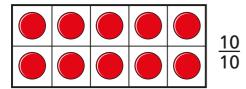


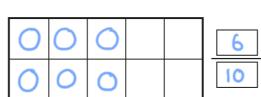


Count in tenths



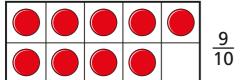
Continue the sequence.



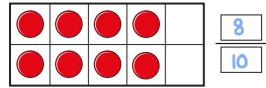




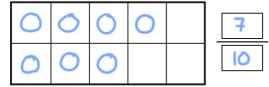


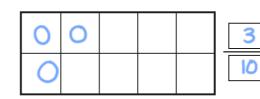




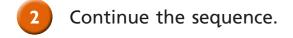












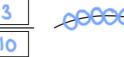


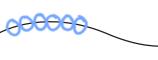














Write the missing fractions in each sequence.

a)





10





10



b)



<u>9</u> 10



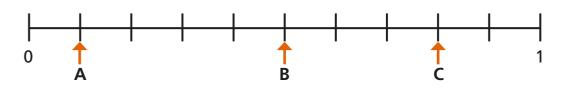
7 10



<u>5</u> 10

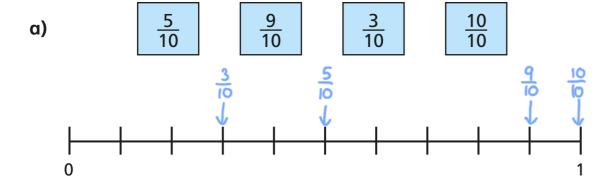


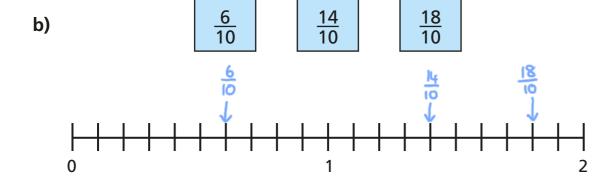
What fraction is each arrow pointing to?



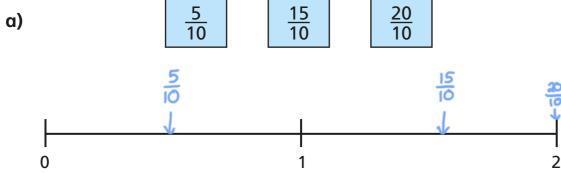
$$A = \begin{bmatrix} \frac{1}{10} \\ \frac{1}{10} \end{bmatrix} B = \begin{bmatrix} \frac{5}{10} \\ \frac{8}{10} \end{bmatrix} C = \begin{bmatrix} \frac{8}{10} \\ \frac{1}{10} \end{bmatrix}$$

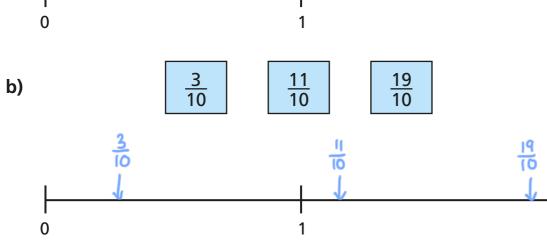
Write the fractions in the correct places on the number lines.



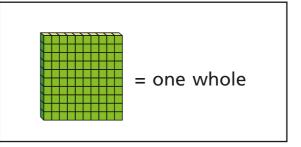


Oraw and label arrows to estimate the position of the fractions on the number lines.



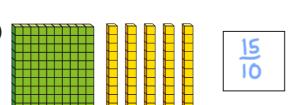




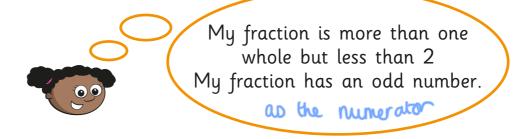


What number is represented in each picture?





8 Whitney is thinking of a fraction.



What could Whitney's fraction be? List all the possible fractions.

Compare answers with a partner.





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